Listing of Claims:

This listing of claims will replace all prior versions and listings of the claims in the application:

1-35. (canceled).

36. (previously presented) A method as recited in claim 39 which further comprises the step of

positioning a guidewire in the body passageway, and wherein said advancing step is accomplished

by threading said catheter over said guidewire.

37. (previously presented) A method as recited in claim 39 which further comprises the step of

allowing said expansion member to be in said second expanded configuration for a predetermined

period of time after the dilatation step to further expose said obstruction to the medicament.

38. (previously presented) A method as recited in claim 39 which further comprises the step of

varying the electric current with time to provide a waveform that controls the rate of iontophorectic

transport of said medicament.

39. (previously presented) A method for dilating and delivering a medicament to an obstruction

in a body passageway which comprises the steps of:

advancing a mechanical dilatation catheter to a predetermined site within a body

passageway, said catheter having a cylindrically shaped expansion member coated with a

medicament and an iontophoretic transport means, said cylindrically shaped expansion member

being moveable between a first contracted configuration wherein said member is defined by a first

dimension extending in a radial direction, and a second expanded configuration wherein said

expansion member is defined by a second dimension extending in said radial direction;

applying a force on said cylindrically shaped expansion member in an axial direction to

move said expansion member between said first contracted configuration to said second expanded

configuration wherein said obstruction is dilated;

operating said iontophoretic means to deliver said medicament into said obstruction or body

passageway;

further comprising, prior to advancing the catheter, the step of applying electrical energy to said expansion member to cause said medicament or therapeutic agent to electrically bond to said expansion member.

40-44. (canceled).

45. (previously presented) A method as recited in claim 39 wherein said expansion member comprises a first plurality of flexible elongate elements helically wound in a first direction of rotation and a second plurality of flexible elongate elements helically wound in a second direction of rotation to form a braid.

46-47. (canceled).

- 48. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising an anticoagulant.
- 49. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament selected from the group consisting of D-Phe-Pro-Arg chloromethyl ketone, an RGD peptide-containing compound, heparin, an antithrombin compound, a platelet receptor antagonist, an anti-thrombin antibody, an anti-platelet receptor antibody, hirudin, hirulog, phe-pro-arg-chloromethyketone (Ppack), Factor VIIa, Factor Xa, aspirin, clopridogrel, ticlopidine, a prostaglandin inhibitor, a platelet inhibitor a and a tick anti-platelet peptide, and combinations thereof.
- 50. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising a promoter of vascular cell growth.
- 51. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament selected from the group consisting of a growth factor stimulator, a

growth factor receptor agonist, a transcriptional activator, and a translational promoter, and combinations thereof.

- 52. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising an inhibitor of vascular cell growth.
- 53. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament selected from the group consisting of a growth factor inhibitor, a growth factor receptor antagonist, a transcriptional repressor, a translational repressor, an antisense DNA, an antisense RNA, a replication inhibitor, an inhibitory antibody, an antibody directed against growth factors, a bifunctional molecule consisting of a growth factor and a cytotoxin, and a bifunctional molecule consisting of an antibody and a cytotoxin, double stranded DNA, single stranded DNA, single stranded RNA and a double stranded RNA and combination thereof.
- 54. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising a cholesterol-lowering agent.
- 55. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising a vasodilating agent.
- 56. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising an agent that interferes with endogenous vasoactive mechanisms.
- 57. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament selected from the group consisting of estrogen, testosterone, steroid hormones, cortisol, dexamethasone, corticosteroids, thyroid hormones, thyroid hormones analogs, thyroid hormones antagonist, adrenocorticotrophic hormone, thyroid stimulating hormone, thyroid

releasing factor, thyroid releasing factor analogs, thyroid releasing factor antagonists and combinations thereof.

- 58. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising a smooth muscle inhibitor.
- 59. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising an agent that modulates intracellular calcium binding proteins.
- 60. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprising a receptor blocker for contractile agonists.
- 61. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament selected from the group consisting of an inhibitor of the sodium/hydrogen antiporter, a protease inhibitor, a nitrovasodilator, phosphodiesterase inhibitor, a phenothiazine, a growth factor receptor agonist, an anti-mitotic agent, an immunosuppressive agent, and a protein kinase inhibitor, and combinations thereof.
- 62. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament comprises a compound that inhibits cellular proliferation.
- 63. (previously presented) A method as recited in claim 39 wherein the expansion member is coated with a medicament selected from the group consisting of Paclitaxel, Rapamycin, Sirolimus, Actinomycin D, Methotrexate, Doxorubicin, cyclophosphamide, and 5-fluorouracil, and combinations thereof.

64. (previously presented) A method as recited in claim 39 which further comprises the step of allowing said expansion member to be in said second expanded configuration for an indeterminate

time period as necessary to delivery the medicament to the passageway.

65. (previously presented) A method as recited in claim 39 which further comprises the step of

varying the electric current with time to provide a square waveform that controls the rate of

iontophoretic of said medicament.

66. (previously presented) A method as recited in claim 39 wherein the passageway is a blood

vessel.

67. (previously presented) A method as recited in claim 39 further comprising the step operating

the expandable member to dilate the passageway.

68. (previously presented) A method as recited in claim 39 wherein the expansion member is

coated with a combination of one or more medicaments and one or more polymers used to bond

said medicaments to said expansion member.

69-84. (canceled).

85. (previously presented) A method as recited in claim 39 further comprising the step of

providing the cylindrically shaped expansion member in the form of an expandable mesh.

86. (previously presented) A method as recited in claim 39 further comprising the step of

providing the cylindrically shaped expansion member having an inner flow passage permitting fluid

flow through the expansion member.

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87. (previously presented) A method as recited in claim 39 further comprising operating said iontophoretic means to supply a flow of electrical current to the cylindrically shaped expansion member.

88. (canceled).